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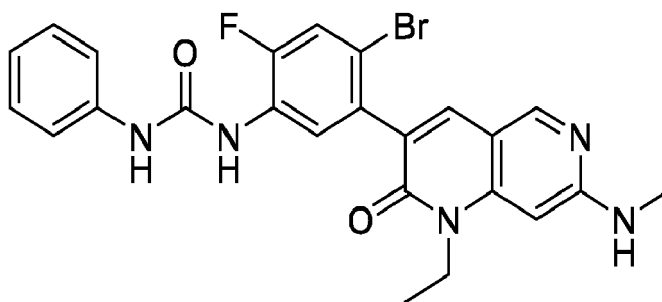
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(54) **AMORPHOUS KINASE INHIBITOR FORMULATIONS AND METHODS OF USE THEREOF**

(57) Provided herein is an amorphous compound represented by Formula (I):



Formula (I)

and compositions thereof, which are useful in the treatment of disorders related to the activity of the c-KIT and PDGFR α kinases, and oncogenic forms thereof.



EUROPEAN SEARCH REPORT

Application Number

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A,D	US 8 461 179 B1 (FLYNN DANIEL L [US] ET AL) 11 June 2013 (2013-06-11) * column 85; example 31 * -----	1-15	INV. A61K9/16 A61K9/20 A61K31/00
A	TANNO FUMIÉ ET AL: "Evaluation of hypromellose acetate succinate (HPMCAS) as a carrier in solid dispersions", JOURNAL DRUG DEVELOPMENT AND INDUSTRIAL PHARMACY, NEW YORK, NY, US, vol. 30, no. 1, 1 January 2004 (2004-01-01), pages 9-17, XP009124621, ISSN: 0363-9045, DOI: 10.1081/DDC-120027506 * the whole document * -----	1-15	A61P35/00 C07C15/00 A61K45/06 A61K31/4375 C07D471/04
A,P	WO 2020/185812 A1 (TEVA PHARMACEUTICALS INT GMBH [CH]; TEVA PHARMA [US]) 17 September 2020 (2020-09-17) * paragraph [0003] * * paragraph [0012] * * paragraph [0044] * * paragraph [0058] * * paragraph [00119] - paragraph [00120] * -----	1-15	TECHNICAL FIELDS SEARCHED (IPC) A61K C07C A61P
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 9 April 2024	Examiner Weiss, Marie-France
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 23 20 4938

5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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09-04-2024

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 8461179 B1	11-06-2013	US 8461179 B1	11-06-2013
		US RE48731 E	14-09-2021
		US 2014088075 A1	27-03-2014
		US 2015320759 A1	12-11-2015

WO 2020185812 A1	17-09-2020	EP 3938363 A1	19-01-2022
		IL 286218 A	31-10-2021
		US 2022144825 A1	12-05-2022
		WO 2020185812 A1	17-09-2020
